

# **PENGEMBANGAN MEDIA PEMBELAJARAN *JOB SHEET* GAMBAR TEKNIK MESIN KELAS X DI SMK NEGERI 3 YOGYAKARTA**

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## **ABSTRAK**

Penelitian ini bertujuan untuk: (1) mengembangkan *job sheet* Gambar Teknik Mesin untuk peserta didik kelas X di SMK Negeri 3 Yogyakarta dan (2) mengetahui kelayakan media pembelajaran *job sheet* Gambar Teknik Mesin yang dikembangkan di SMK Negeri 3 Yogyakarta.

Jenis penelitian yang digunakan adalah *R&D (Research and Development)* yang mengacu pada model pengembangan *Four-D (define, design, develop, desiminate)*. Penelitian dilakukan di SMK Negeri 3 Yogyakarta dan waktu penelitian dilakukan pada tahun ajaran 2018/2019. Teknik pengumpulan data dilakukan dengan observasi dan wawancara, instrumen yang digunakan adalah instrumen non tes berupa angket tertutup dengan skala linkert 5 pilihan jawaban. Angket divalidasi oleh dua dosen ahli evaluasi, kemudian diberikan kepada ahli materi dan media untuk memvalidasi *job sheet* dan dilakukan uji coba berupa respon guru mata pelajaran serta penggunaan *job sheet* oleh peserta didik. Analisis data pengembangan dilakukan secara deskriptif. Sedangkan analisis data kelayakan dilakukan dengan konversi data kuantitatif kedalam data kualitatif.

Hasil penelitian ini menunjukkan bahwa: (1) media pembelajaran *job sheet* Gambar Teknik Mesin yang dikembangkan melalui beberapa langkah, yaitu: (a) mendefinisikan kebutuhan dengan analisis awal, analisis peserta didik dan kurikulum, analisis materi, perumusan tujuan; (b) melakukan perancangan dengan menyusun parameter garis besar isi *job sheet*, pemilihan format, perancangan awal *job sheet*; (c) melakukan pengembangan dengan validasi produk oleh ahli media dan ahli materi yang dilanjutkan revisi, pengenalan produk pada guru dan uji coba pada peserta didik sehingga dihasilkan produk akhir *job sheet* Gambar Teknik Mesin; (d) melakukan penyebaran produk secara terbatas pada guru mata pelajaran Gambar Teknik Mesin di SMK Negeri 3 Yogyakarta. (2) Kelayakan media pembelajaran *job sheet* Gambar Teknik Mesin kelas X ditentukan dari hasil validasi ahli media dengan rerata skor 4,58 dan ahli materi 4,66 yang termasuk dalam kategori sangat layak dan hasil respon pengguna guru dengan rerata skor 4,21 dan peserta didik 4,5 dalam kategori sangat layak. Berdasarkan hasil penelitian yang telah dilakukan, media pembelajaran *job sheet* gambar teknik mesin kelas X ini dinyatakan sangat layak untuk digunakan dalam pembelajaran.

Kata Kunci: *Media Pembelajaran, Job Sheet Gambar Teknik Mesin kelas X, Research and Development.*

# **DEVELOPMENT JOB SHEET LEARNING MEDIA OF MECHANICAL ENGINEERING DRAWING X-GRADE AT SMK NEGERI 3 YOGYAKARTA**

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## **ABSTRACT**

*This research aims to: (1) develop job sheet drawings of mechanical engineering to the students of class X in SMK Negeri 3 Yogyakarta and (2) find out the feasibility of the learning media job sheet engineering drawings of machines developed in SMK Negeri 3 Yogyakarta.*

*The type of research used is R&D (Research and Development) which refers to the development of Four-D model (define, design, develop, desiminate). Research conducted at SMK Negeri 3 Yogyakarta and time doing research on the school year 2018/2019. Engineering data collection done by observation and interviews, the instruments used are a non test instrument in the form of the now closed with the scale of the linkert 5 alternatives. The now validated by two lecturers expert evaluation, then given to material and media experts to validate the job sheet and conducted trials in the form of the response of teachers of subjects as well as the use of the job sheet by learners. Development of data analysis done for descriptive. While the feasibility analysis of data conversion is done by qualitative data into quantitative data.*

*The results of this research indicate that: (1) learning media job sheet Image of mechanical engineering developed through several steps, namely: (a) define the needs with the initial analysis, analysis of the learners and curriculum, material analysis, formulation of objectives; (b) do the designing parameter by making an outline of the contents of the job sheet, choice of format, the initial design of the job sheet; (c) undertake development with validation products by media expert and material experts continued the revision, the introduction of the product on the teacher and learner at the trials so that the resulting end products job sheet Image of mechanical engineering; (d) undertake dissemination products are limited to teachers of subjects Pictures of mechanical engineering in SMK Negeri 3 Yogyakarta. (2) the feasibility of the learning media job sheet Image of mechanical engineering class of X is determined from the results of the validation of media experts with a mean score of 4.58 and 4.66 material included in the category of very decent user response and results teachers with the average score of 4.21 and participants Syed 4.5 in the category of very decent. Based on the results of the research that has been done, the media learning job sheet image of mechanical engineering class X is stated very viable for use in learning.*

*Keywords: Learning Media, Job Sheet drawings of Mechanical Engineering in class X, Research and Development.*